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(54) POLYETHYLENE RESIN FOR LARGE
BLOW-MOLDED PRODUCT, ITS PRODUCTION
AND LARGE BLOW-MOLDED CONTAINER

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a resin desirable for blow-molding large cans for industrial chemicals and containers for use in container trucks or trains by selecting a polyethylene resin specified in a density, a melt flow rate, a molecular weight distribution, a melt tension, a content of boiling n-hexane extractibles and an environmental stress cracking time.

SOLUTION: A polyethylene is selected which has a

density of 0.94-0.97 g/cm³ (JIS K6760-1981), a melt flow rate of 1-15 g/10 min (HLMFR) (JIS K7210-1976, condition 7, at 190°C under a load of 21.6 kg), a weight-average molecular weight/number-average molecular weight (GPC) of 8-15 and a melt tension(MT) of 15-65 g (at 190°C), satisfying the relationship: $\log MT = -0.455 \times \log HLMFR + 1.64$ and having a content of boiling n-hexane extractibles of 0.2 wt.% or below and an environmental stress cracking resistance time of 350 hr or above. A large molding made from this resin has excellent low-temperature drop strength and good skin and is capable of long repeated use.

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